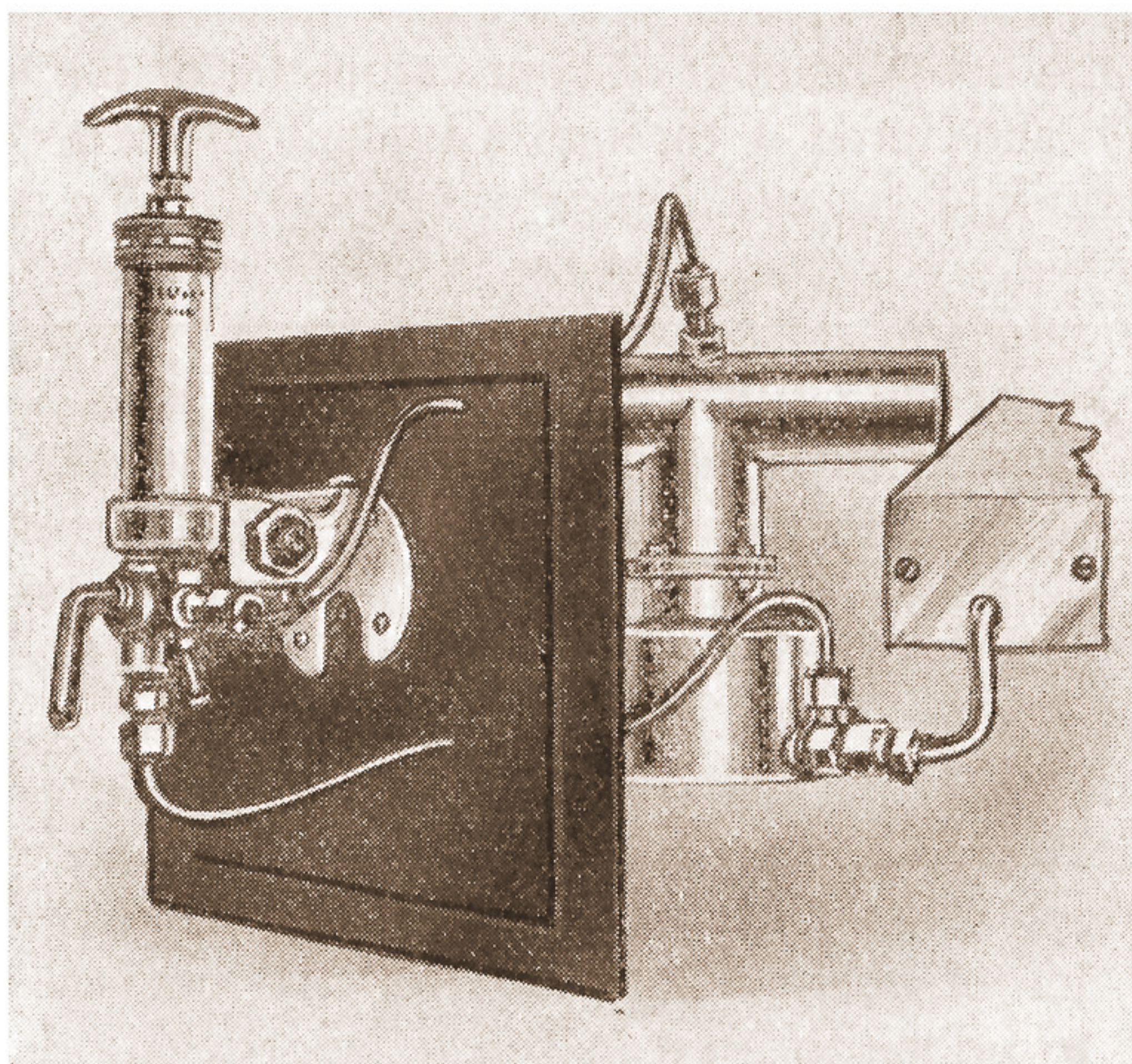


THE CRONE STARTING DEVICE

MADE IN THREE STYLES



DASH STARTING DEVICE. PATENTED

The Crone Starting Device has been on the market for the past few years, and has been found by automobilists to be the greatest little device for priming an automobile on the market. With its use there are no hoods to raise and no extra gasoline to carry along.

For sale by dealers or direct from the manufacturer,

F. G. CRONE

334 Genesee Street, :: BUFFALO, N. Y.

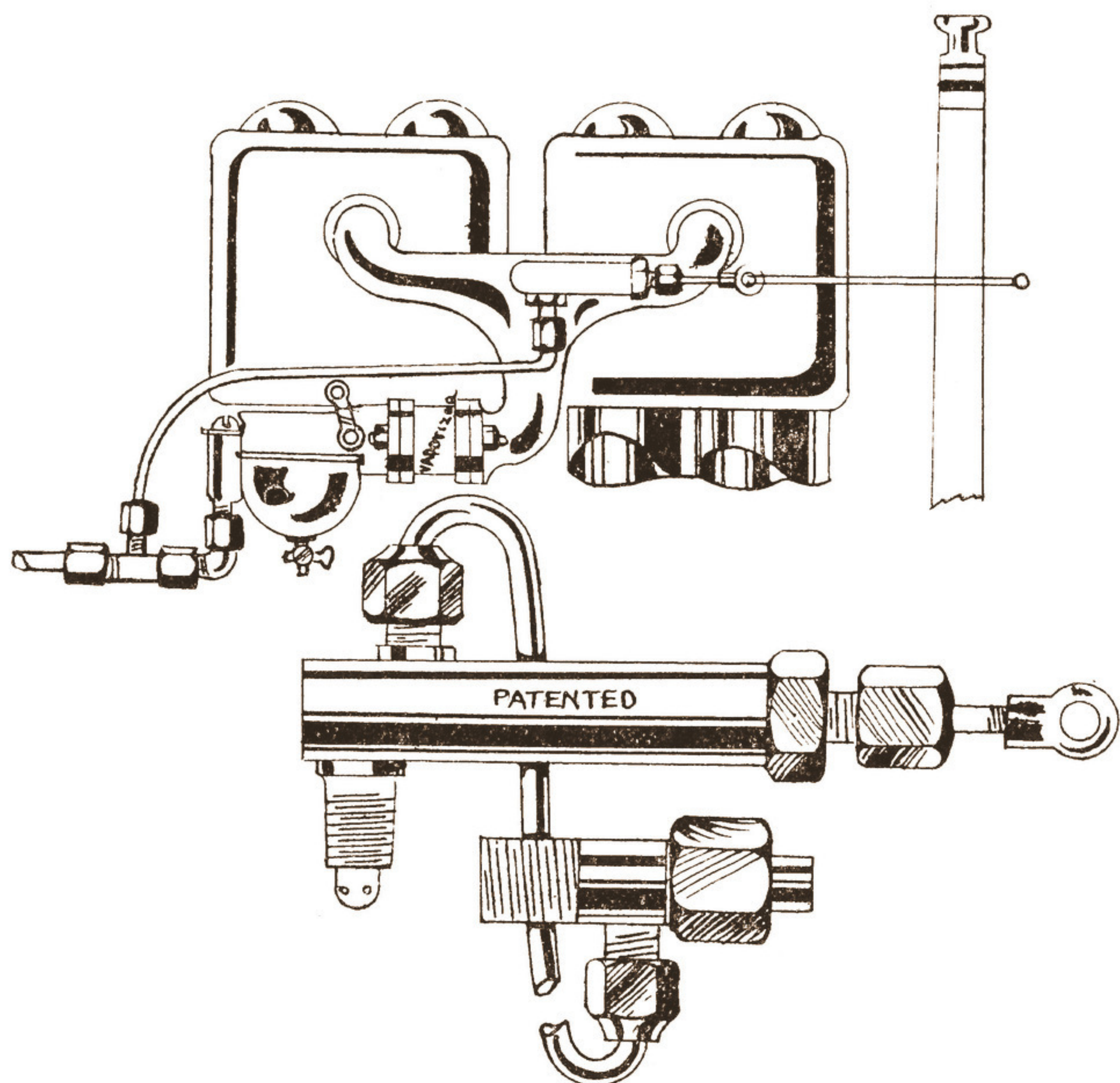
CANADIAN BRANCH:

BRIDGEBURG, ONT.

P. O. Box 25

THE CRONE STARTING DEVICE was designed to supply gasoline to the intake pipe or cylinders of a gas or gasoline engine. It is well known that in cool weather it is very hard to start an automobile. This is due to the lack of gasoline in the intake pipe, and it is therefore necessary to keep on cranking until enough gasoline is drawn into the intake pipe to cause an explosion. With the aid of the *Crone Starting Device* you are able to draw gasoline from the float chamber of your carbureter or the main supply and force it through a (patented) sprayer or atomizer into the intake pipe or cylinders. We mean when we say forcing, that the gasoline is sprayed so finely into the intake pipe, that when the engine is turned over the air in the cylinders immediately evaporates the gasoline; consequently, when the engine is turned over to the sparking point there is an immediate explosion; thus you can readily see why your car ought to be equipped with a *Crone Starting Device*. On November 14, 1911, a basic patent was granted Mr. Crone on all claims on this Starting Device. The Starting Device has been upon the market for the past few years, and has been thoroughly tested by hundreds of automobilists all over the country, and found to be the greatest help and labor-saving device for the money on the market. Some automobilists claim that they prime their engine and crank same once or twice, and that by putting on spark it will start from compression. These Starting Devices are made in three different sizes, to suite the demands and tastes of the automobile owner, and range in price, \$4.00, \$5.00 and \$7.50,

The cut at top of the next page illustrates how the **Crone Manifold Starting Device** is attached to manifold. There is no soldering necessary. All you have to do is to drill $\frac{1}{8}$ " gas pipe hole in about the center of manifold and follow directions for connecting pipe; screw in sprayer attached to pump; then run copper tubing down to main line at carbu-

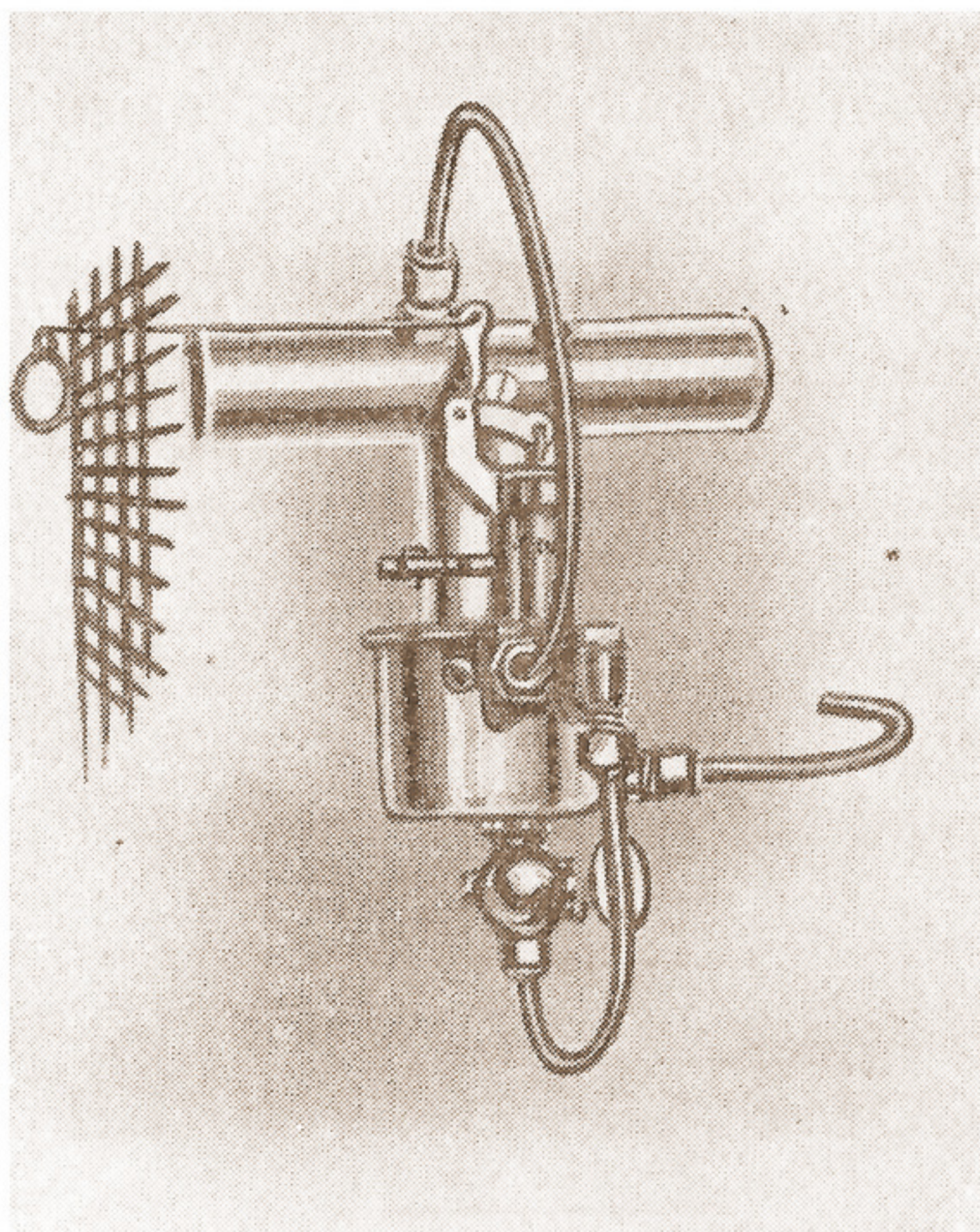


MANIFOLD STARTING DEVICE

reter connection, which is furnished with pump, together with cord leading to outside of radiator.

The Manifold Starting Device is made of brass throughout and cannot possibly get out of order. It will outlive the life of any car. It is operated first by pulling the cord through the radiator, and while holding same open, crank the engine a few times. This will invariably start the engine every time. This Manifold Starting Device can be attached to any car in a very short time. (See direction sheet for full description.) Price complete, \$4.00.

The **Crone Automatic Starting Device** is also made of brass throughout, and is fitted with two check ball valves. To operate it you have to pull cord through radiator front or front dash several times. This operation draws gasoline from the float chamber



AUTOMATIC STARTING DEVICE

of your carbureter and sprays it into the intake pipe or cylinders. There is no chance of your engine sucking gasoline through the pump, because, as stated before, the two ball check valves, together with the automatic valve, open and close only when the cord is pulled. This Starting Device has to be connected to the carbureter and must draw the gasoline from the float chamber or gasoline will continually leak through piston. Price complete, \$5.00.

The **Dash or Floor Board Starting Device** is made of highly polished brass, and is adjustable to any angle. All wearing parts are brass. The plunger is fitted with piston rings ground to an accurate fit. This assures you a full charge every time the plunger is lifted. This Starting Device can be attached either to the dash or floor board. It draws the gasoline from the main supply, and is operated first by opening the two-in-one valve, then by lifting the plunger once or twice, then closing valve again. This Starting Device is being used on some automatic starters,

and is giving great satisfaction. In fact, most starters will not work satisfactorily unless the engine is primed. (For cut see first page.)

As stated above, the *Manifold Starting Device* draws gasoline from the main line, the *Automatic Starting Device* draws gasoline from the float chamber of the carbureter, and the *Dash or Floor Board Starting Device* draws gasoline from the main line. Any of these three Starting Devices at the prices mentioned above, complete in box with all necessary connections and instructions for installing.

SOME TESTIMONIALS

F. G. Crone, Buffalo, N. Y., Dec. 28, 1911.
334-36 Genesee St., Buffalo, N. Y.

Dear Sir: About a year ago I fitted my Pope-Hartford Touring Car with one of your starting devices, and feel justified in saying it is worth ten times its cost to me. Before installing it I had to crank the engine until I was nearly exhausted, but now it will start every time on second crank. Trusting you may have every success with this starting device, I am,

Very truly yours, ED. J. BIHL.

Buffalo, N. Y., Aug. 25, 1910.
Mr. F. G. Crone, Buffalo, N. Y.

Dear Sir: I am sending my new Ford automobile out to your factory to have a new Primer put on, like the one you put on my old car last fall. It certainly is a winner. I would not be without one.

Very truly yours, M. H. DUNN.

Buffalo, N. Y., Feb. 18, 1911.
Mr. F. G. Crone, Buffalo, N. Y.

Dear Sir: In reply to your inquiry as to how I like your Priming Pumps, will say I have one on my pleasure automobile and some of them on the delivery trucks, and find them very satisfactory, and find they do as you represent them to do, and would not be without them.

Respectfully yours,
FAXON, WILLIAMS & FAXON.

Mr. F. G. Crone, Buffalo, N. Y.

Dear Sir: I cannot speak too highly of the Priming Pump you have attached to the carbureter of my Mitchel car. Heretofore during cold weather I was obliged to exert myself almost to exhaustion to start the motor, whereas now a few turns of the crank will start the machine without fail. The little pump is worth its weight in gold in cold weather.

Gratefully yours, D. B. STUMPF.

Buffalo, N. Y., Nov. 23, 1909.

Mr. F. G. Crone, Buffalo, N. Y.

Dear Sir: Will you please put one of your Priming Pumps on my Cadillac automobile, the same kind as you put on my two-cylinder Buick last year?

Respectfully yours, J. F. WHITWELL, M. D.

The Ford and Maxwell people, here in Buffalo, have sold hundreds of these Primers during the last season, and many other auto manufacturers are seriously considering it for regular equipment.

For sale by your dealer or direct from the manufacturer,

F. G. CRONE,
334 Genesee Street, BUFFALO, N. Y.

W A R N I N G

Any one infringing on the Crone Primer Basic Patent for supplying gasoline to the intake pipe as a quick starter by suction or by forcing with pump, will **TAKE WARNING** that my interest will be protected.

F. G. CRONE,
334-336 Genesee St., Buffalo, N. Y.